

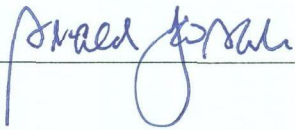
HSERC MEMBERS OR THE VOTING REPRESENTATIVES' SIGN-IN SHEET FOR MARCH 4, 2016

Dept. of Agriculture
Board of Agriculture

Tin Shing Chao
Occupational Safety and Health Division
Department of Labor and Industrial Relation

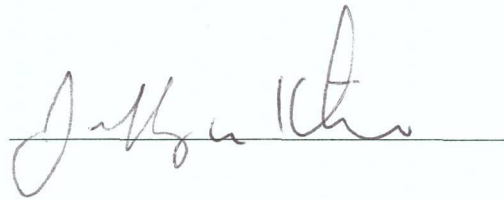
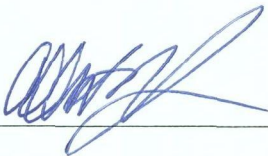
Gerald Kosaki
Hawaii Representative/LEPC Chairperson
Hawaii County Fire Department

Alexander J. Adams
Honolulu Representative/LEPC Chairperson
Honolulu Fire Department



Albert Kauai
Kauai Representative/LEPC Chairperson
Kauai Fire Department

Jeff Kihune
Maui Representative/LEPC Chairperson
Maui Fire Department



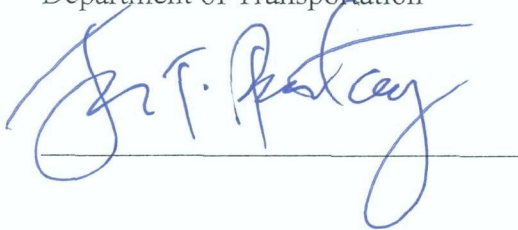
Keith Kawaoka
Deputy Director, Environmental Health
Department of Health

Tom Eisen FOR Scott Glenn
Deputy Director
Office of Environmental Quality Control



HSERC MEMBERS OR THE VOTING REPRESENTATIVES' SIGN-IN SHEET FOR MARCH 4, 2016

Jade Butay
Deputy Director - Administration
Department of Transportation



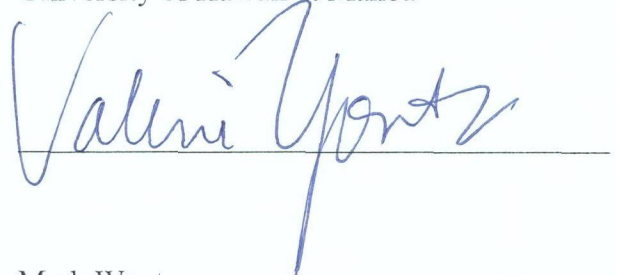
Vern Miyagi
State Civil Defense
Department of Defense



Deputy Director
Department of Labor and
Industrial Relations

Deputy for Commission on Water
Resource Management
Department of Land and Natural Resources

Valerie Yontz
Office of Public Health Studies
University of Hawaii at Manoa



Mark Want,
Energy Analyst
Department of Business Economic
Development & Tourism



HSERC MEETING SIGN-IN SHEET FOR MARCH 4, 2016

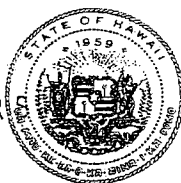
Name Organization Telephone # Fax # E-Mail

Patty Coleman NAVY 413-0369 413-4155 patricia.coleman@navy.mil

Adam Tedall DOI-HHEER 586-4249 adam.tedzell@doh.hawaii.gov

Laura Mastnyre DOI-EPO 586-4338

Tom Eisen OEQC 586 4185



'16 FEB 25 P 3:04
STATE OF HAWAII
DEPARTMENT OF HEALTH
P. O. BOX 3378
HONOLULU, HI 96801-3378

In reply, please refer to:
File:

HAWAII STATE EMERGENCY RESPONSE COMMISSION
MEETING #102

Friday, March 4, 2016 from 9:00 a.m. to 12:00 p.m.

Department of Health
919 Ala Moana Boulevard, Fifth Floor
Honolulu, Hawaii 96814

AGENDA

- 1) 9:00 Call to Order
Announcements, Remarks, Introduction
Approval of Minutes from Mtg # 101
Keith Kawaoka, Deputy Director for
Environmental Health
- 2) 9:20 LEPC Updates
Gerald Kosaki, Hawaii LEPC Representative
Albert Kauai, Kauai LEPC Representative
Jeffrey Kihune, Maui LEPC Representative
Alex Adams, Oahu LEPC Representative
- 3) 9:40 Update on Memorandum
of Understanding - DOE
Sharon Leonida – Keith Kawaoka
- 4) 9:50 Executive Order 13650
Sharon Leonida
- 5) 10:10 Planning for Ammonia
Safety Day in 2016
Sharon Leonida, Alex Adams
Robert Harter
- 6) 10:30 HMEP Grant
Harold Lao, HEER Office
- 7) 10:40 Updates on Health Department
Projects – Dengue Fever
Keith Kawaoka
- 8) 11:00 Annual Unknown Sample of the
Month Challenge Results
Liz Galvez, HEER Office
Sonia Campbell, University of Hawaii
- 9) 11:20 Other Business
HSERC, LEPC
- 10) 11:30 Next HSERC Meeting
June 17, 2016

If you require an auxiliary aid, service or accommodation due to a disability, please contact (808) 586-7542 or email at Sharon.leonida@doh.hawaii.gov by February 29, 2016.



STATE OF HAWAII
DEPARTMENT OF HEALTH
P. O. BOX 3378
HONOLULU, HI 96801-3378

In reply, please refer to:
File:

HAWAII STATE EMERGENCY RESPONSE COMMISSION
MEETING # 101

Friday, December 18, 2015, 9:00 a.m. to 12:00 p.m.

Department of Health
919 Ala Moana Boulevard, 5th Floor
Honolulu, Hawaii 96814

Attendees

Voting: Keith Kawaoka, Deputy Director, Dept. of Health; Gerald Kosaki, Hawaii County LEPC; Jade Butay, Dept. of Transportation; Alex Adams, Honolulu LEPC; Valerie Yontz, Public Health Studies, University of Hawaii; Jeff Kihune, Maui County LEPC; Tin Shing Chao, HIOSHA, Dept. of Labor and Industrial Relation; Albert Kauai, Kauai County LEPC; Scott Glenn, Office of Envir. Quality Control; Mark Want, Dept. of Business Economic Development & Tourism

Non-Voting: Sharon Leonida, Adam Teekell, Terry Corpus, Curtis Martin, Dept. of Health, HEER Office; Robert H. Harter, City and County of Honolulu, Dept. of Emergency Management; Eric Jensen, Tetra Tech; Travis Hiramoto, Solid Hazardous Waste, Dept. of Health; Roger Forstnor, U.S. Dept. of Labor, OSHA;; Bill Marhoffer, Brenden Kettner, USCG Dist 14/Oceania RRT, Shirley Watanabe, Dept. Of Health, Clean Air, Craig Benson, EPA, Region 9; Cynthia Pang, Navy; Laura McIntyre, DOH/EPO; Mark Behrens, Orasa Fernandez, Dept. of Education

1. Keith called the meeting to order at 9:11 am. Motion to adopt minutes from meeting 100, moved and seconded, minutes were adopted.

1.1 Introduction of Attendees.

2. LEPC Updates:

2.1 Hawaii County: Gerald Kosaki

2.1.1 The LEPC meeting was held on December 3, 2015, eleven members attended. Mayor had requested that meeting be held at the lanai at his office. He wanted to meet the LEPC members. He was not at his office that day and called Gerald to apologize.

2.1.2 Three Hawaii Fire Department Personnel were sent to the Continuing Challenge. They were required to submit a written report on the conference and recommendations on equipment that vendors had on display. Gerald read the reports to members.

- 2.1.3 Fire Chief has requested that the LEPC sponsor equipment that the HazMat Team needs. There is no "line budget for Hazmat". Until they can get a line budget for them, the chief would like the LEPC to look at some equipment that Hazmat may need. Gerald explained about the condition of the old equipment. They had borrowed equipment from the HEER office to use. He submitted a request to the LEPC members and it was approved. The department is in the process of procuring them.
 - 2.1.4 LEPC Budget was discussed for 2016.
 - 2.1.5 Propane training classes were put on by HazMat I. Q. Gerald informed trainers that the department could not pay the fee. The trainers found a grant that paid the total cost. The training was for both sides of the island.
 - 2.1.6 Hazmat Technician class is March 7 – 18 for chemistry and April 25 – May 6 for the Tech part. Gerald was asked if he had a call from Leon Damie, Homeland Security. He had requested Tier II information for facilities. Information has been sent. Sharon has requested that inspectors from Homeland Security notify Fire, LEPC and police when they are here to inspect.
Keith commented that the County Emergency Operations Center has been sending people out to check the community. They have noticed some situations where the HazMat Unit may be requested to check on.
- 2.2 Kauai County: Albert Kauai – Kauai Fire Department
 - 2.2.1 Last LEPC meeting was November 13, 2015, eight members attended. Next meeting will be February 18, 2016. Briefed committee on last HSERC meeting.
 - 2.2.2 Kauai Fire Department sponsored two HazMat Captains to attend **The Hot Zone** in Houston. Captain Reid did a report on the event. He also did a proposal to the LEPC to purchase "All Hazard Face Masks and Communication Equipment" for the HazMat team. After discussion, LEPC voted unanimously to approve purchase.
 - 2.2.3 Liz and Sonia did training for the HazMat crews in October. Hazardous Materials Technical Refresher Training will on November 17, 18, and 19. February 1, 2016 Hawaii Gas will be doing Propane Emergency Training for KFD. Four hours of class room, then field training in the afternoon.
 - 2.2.4 October 5, 2015, rusted compress gas cylinder washed ashore on a beach at the east side of the island.
 - 2.3 Maui County: Jeff Kihune - Maui Fire Department
 - 2.3.1 LEPC meeting was on November 17, 2015. Seven members attended. Discussion on items from past meetings.
 - 2.3.2 HazMat clean up event on November 21 – 22, sponsored by the county. This will be scheduled for twice a year.
 - 2.3.3 Sub-committee was established to review the rules and regulations for LEPC. Make sure that they meet the requirements.
 - 2.3.4 HazMat unit has a laptop computer, it will be programed with the new CAMEO.
 - 2.3.5 Liz and Sonia did training in November and December on Maui. CST exercise will be January 11 -15, 2016 .

2.3.6 In one week there were four oil spills. One spill was two (2), miles long. Another was ½ mile long. Because of the mosquito scare, people have been using **Malathion**. There were several incidents, one involved a gallon bottle that broke. Neighbors had to be evacuated.

2.4 Honolulu City & County: Alex Adams

2.4.1 LEPC meeting was December 16, 2015, thirty-two people attended. Next meeting will be March 15, 2016.

2.4.2 Reviewed information from last HSERC meeting. Talked about past training events.

2.4.3 HazMat teams visited the Pa'ina Hawaii facility. A fruit company that irradiates produce for export. The 'Irradiator' kills any insects or pests that may be on the items treated.

2.4.4 HFD visited two (2), Tier II facilities that the fire department decided to do "**per plans**" for. Both have large amounts of propane tanks.

2.4.5 Alex and Battalion Chief Miguel gave a report on Continuing Challenge Conference. There was a summary of the classes that the six captains attended. A representative from Kaneohe Marine Corp Base gave a report on their different exercises and Oil Spill Response Plan. Coast Guard gave a quarterly update. Klean, Kapolei Local Emergency Action Network, gave their report on the traffic problems and possible solutions. Dawn, from EPA Region 9, gave a quick update on what is happening in the regions. Pre-Planning is being done for the **GAMMA KNIEF** Facility at the former Saint Francis East hospital. Training from RKI for the new Multi-Gas instrument that the department just received.

Keith asked about the Campbell Industry Fire. Alex went to the facility the next day, fire investigators were there trying to determine cause of fire. Information has not been released. Terry, from the HEER Office, collected water samples the next day. Alex also had to collect water samples, the battalion chief wanted them due to a possible exposure of chemicals from the fire to the department personnel.

Bill Marhoffer explained about the Coast Guard response to the event for two days. There was no evidence of any substance going into the ocean.

3. Memorandum of Understanding with Dept. of Education – School Labs/
School Safety Inspection Program – Mark Behrens – Dept. of Education

3.1 Mark explained about the new safety and inspection program that started March of 2014. Schools are required to an inspection at the beginning of the school year. Fire also does a yearly inspection. In the new program, the superintendent would like all 256 school thoroughly inspected, a very comprehensive inspection, with reports and pictures, in a three year cycle. This would be a total of 85 schools a year.

Three things make up the program: **A Mock HIOSHA, Hazardous Materials Disposal, and Vulnerability Assessment.**

Mark explained what each section would be checking on. He listed the people that would be on the school inspection team. Using slides he showed what they found in the schools. There are dangerous hazards throughout schools. They would like to "control inventory", telling schools not to accept donations. Mark thanked the DOH

for doing inspections. DOE now has a budget to get rid of chemicals, Enviro Services is their contractors. Clean up will cover the whole school.

Last year \$136,808 was spent, this year to date, the cost is \$52,000. They have a budget of \$100,000. A total of seventy (70), schools in two years have had their chemicals removed. Slides showed what chemicals were found. To avoid more chemicals in schools, some schools are using computer programs to conduct experiments. Micro kits are also being used, then disposed of.

For Vulnerability Assessment, they are checking for proper signs, 'office, visitor report to the office', cattle gates to the parking lot, this is to help prevent people from wandering around the campuses. To encourage pride in the schools, murals have been put up by the students and teachers.

Slides showed damages that was done to one school.

- 3.2 Training is done by doing "hands on". When hazards are found, a report is sent out to the school. A **Corrective Action Form** must be filled out. This includes the date, what was done to correct problem, etc. It will be verified that this action was done. No one from the DOH is on the teams, they would be welcome to join. SDS sheets are in several places, master sheets are at the admin office. Custodians, cafeteria, shops, etc, keep their SDS sheets at their area. Mark will share information with the fire department per Gerald's question. Bill Marhoffer cautioned about having someone outside of the school system helping to insure that things are not overlooked. Fire departments doing inspections every year help in that respect. A federal grant fifteen years ago authorized SCHOOL RESOURCE OFFICERS, for rural schools. They are like regular police, at the school level. They are another source to help with awareness. Mark reviewed how often training is done. Complex Area Superintendent, CAS, do monthly training for schools in their complexes. This covers a wide variety of subjects.

MOU, Memorandum of Understanding, was sent to Gilbert Chun, Sharon will check on this.

4. Executive Order 13650 – Sharon Leonida

- 4.1 Sharon explained that the tri-chairs, EPA, Homeland Security, OSHA, of the EPA Regions 8, 9, 10, had found funding to have the representatives of each state in the three regions to meet in San Diego February 3 -4, 2016. They would like the state reps to explain how their state is organized. The chairs would like to see how each state can set up a procedure to follow through with the executive order. They are putting together a Standard Operating Procedure. This meeting would help to determine how each state could fit their existing organization within the SOP.

5. Planning for Ammonia Safety Day in 2016 – Robert Harter, Sharon Leonida, Alex Adams

Alex explained about looking for places, doing research on whether it should be a whole day or a half day event, who would be invited, information needed at event. Bob has checked on what other states had done. Ammonia Safety Training Institute will help with registration and call vendors. We would need to determine the different groups that would be invited. EPA would like the event to be the same week as HSERC. Hopefully the week of June 13 – 17, 2016. We will keep HSERC informed.

6. HMEP Grant; Harold
 - 6.1 He has received notice of Fiscal Year 2016 grant. Amount for Planning is \$49,259, Training is \$58,764. Total is \$108,023. This is an increase of about \$3,000. There is a possible increase in the future.
 - 6.2 Training dates for next year are set. This time, Big Island and Honolulu will be having training.
 - 6.3 Kauai's LEPC EOP HazMat Annex is being finalized, Maui LEPC will be next.

7. HSERC Financial Report , Tier II Division of Funds – Curtis Martin
Curtis explained that the LEPC's have to vote to accept the division of funds. Jeff motioned, Gerald seconded. HSERC must vote to allow the release of funds to the LEPCs. Valerie motioned, Jade seconded, motion was accepted.

Correction to minutes by Tin Shing, his name on first page attendees, HIOSH needs an A,
7.3 HIOSH , needs an A. "company SHALL have a written SAFETY AND HEALTH PROGRAM, INCLUDING EMERGENCY PLANNING. Accept the minutes with revisions.

Jeff – Hot Zone, classes that are available, NASTTPO will be in Nebraska, 2016.
Bill Marhoffer, National Response Team put together a presentation for LNG. He will review and report how good it is.

8. Schedule next HSERC Meeting: HSERC
 1. March 4, 2016
 2. June 17, 2016
 3. September 23, 2016
 4. December 16, 2016

Respectively Submitted,


Sharon L. Leonida
Environmental Health Specialist III

DAVID Y. IGE
GOVERNOR OF HAWAII



VIRGINIA PRESSLER, M.D.
DIRECTOR OF HEALTH

STATE OF HAWAII
DEPARTMENT OF HEALTH
P. O. BOX 3378
HONOLULU, HI 96801-3378

In reply, please refer to:
File:

Keith E. Kawaoka, D.Env.
Deputy Director for Environmental Health Administration
1250 Punchbowl Street, Room 325
Honolulu, Hawaii 96813

March 4, 2016

TO: Hawaii State Emergency Response Commission

FROM: Keith E. Kawaoka, D.Env. *Keith Kawaoka*
Deputy Director of Environmental Health

SUBJECT: HSERC Meeting March 4, 2016

I am unable to attend the HSERC meeting due to a conflicting schedule.

I hereby appoint Curtis Martin from the department's Hazard Evaluation and Emergency Response Office to represent me at the above meeting with all the rights as a voting member.

NOTICE TO BUSINESSES THAT STORE, USE, OR MANUFACTURE ANY HAZARDOUS SUBSTANCES

The Honolulu Local Emergency Planning Committee (LEPC) reminds Oahu businesses and facilities that store, use, or manufacture hazardous substances that an important reporting deadline is approaching. These facilities may be required to submit a Chemical Inventory Report Form (Tier 2 form) and a \$100 filing fee by March 1, 2016. This reporting form addresses a facility's storage, use, or manufacture of hazardous chemicals anytime during the 2015 calendar year, in quantities that equal or exceed established reporting thresholds. The information is used for emergency response planning by the Honolulu Fire Department, the Hawaii Department of Health (HDOH), and the LEPC. Under Hawaii state statutes (Section 128E-6(2) HRS, the Hawaii Emergency Planning and Community Right-To-Know Act (HEPCRA), reporting is required annually by covered facilities. Those that do not report may be subject to substantial monetary penalties. For more information or questions regarding types and quantities of hazardous materials that require reporting, how to report, copies of report forms or report software, or other information, visit the website: <http://hawaii.gov/health/environment/hazard/hepcra.html> or contact Sharon Leonida with the HDOH / Hazard Evaluation and Emergency Response (HEER) Office at 808-586-4249.

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EO13650 HI Implementation Follow-up: Inspection/Training Call

November 9, 2015

Discussion on ideas for an Ammonia Safety day in Hawaii. Training on inspections could be put on EPA's website. Webinars could be made available.

The Ammonia Safety Day could be the same week as an SERC meeting.

Inspections could be completed at several facilities in advance. This would give the inspectors time to review the data and have it available for Ammonia Safety Day.

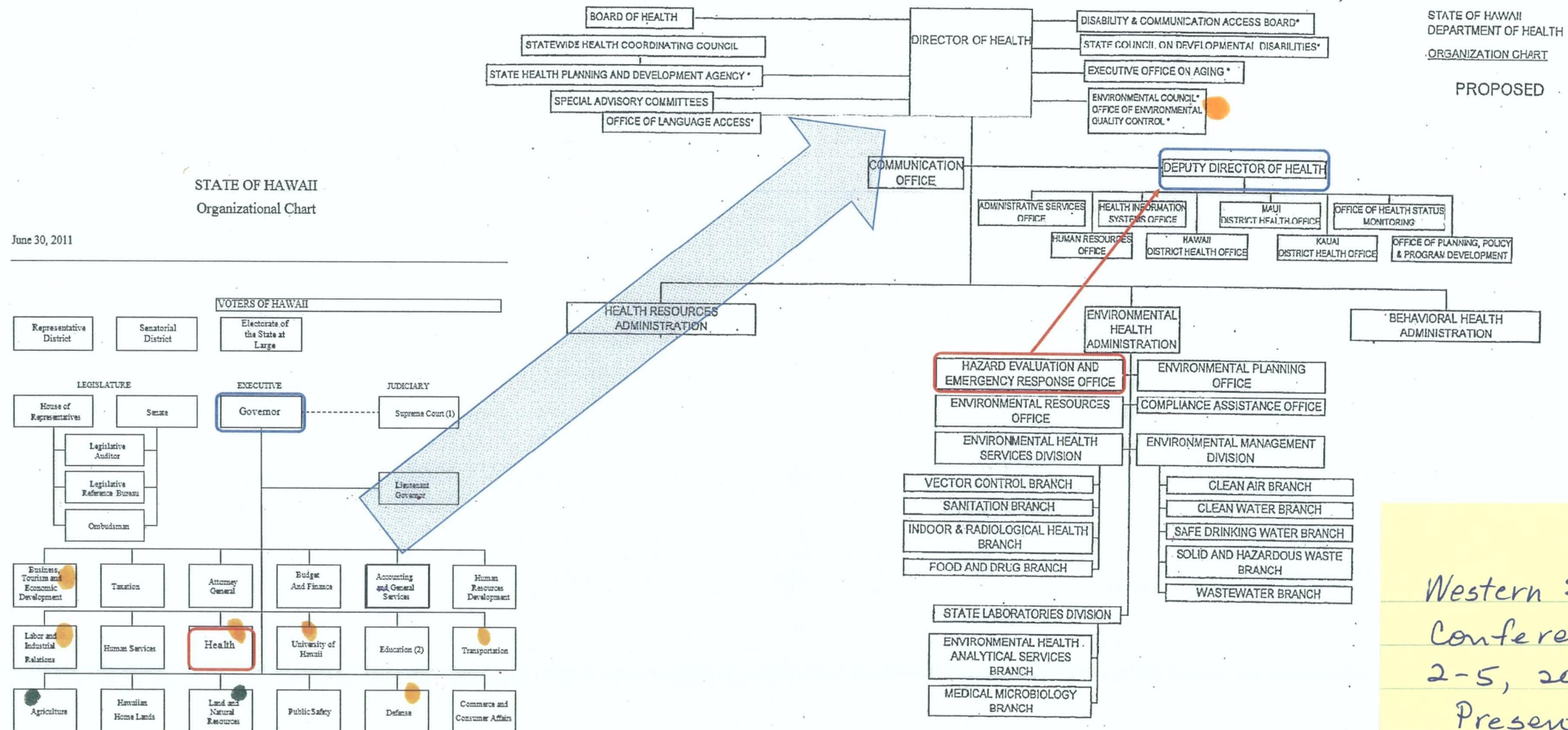
At the December 18th meeting for HSERC, future meeting dates can be set for the next year. This will allow time to plan when to schedule the inspections and discuss options.

Get information on possible meeting sites. Last Safety Day was held at the HFD Fire Training Facility. It was standing room only. Personnel from facilities state wide were invited. Two or more people from these facilities attended.

In future calls, more information will be available.



State of Hawaii Organizational Charts



(1) The Governor's appointment of justices of the Supreme Court confirmed by the Senate.
(2) The Board of Education is appointed by the Governor.

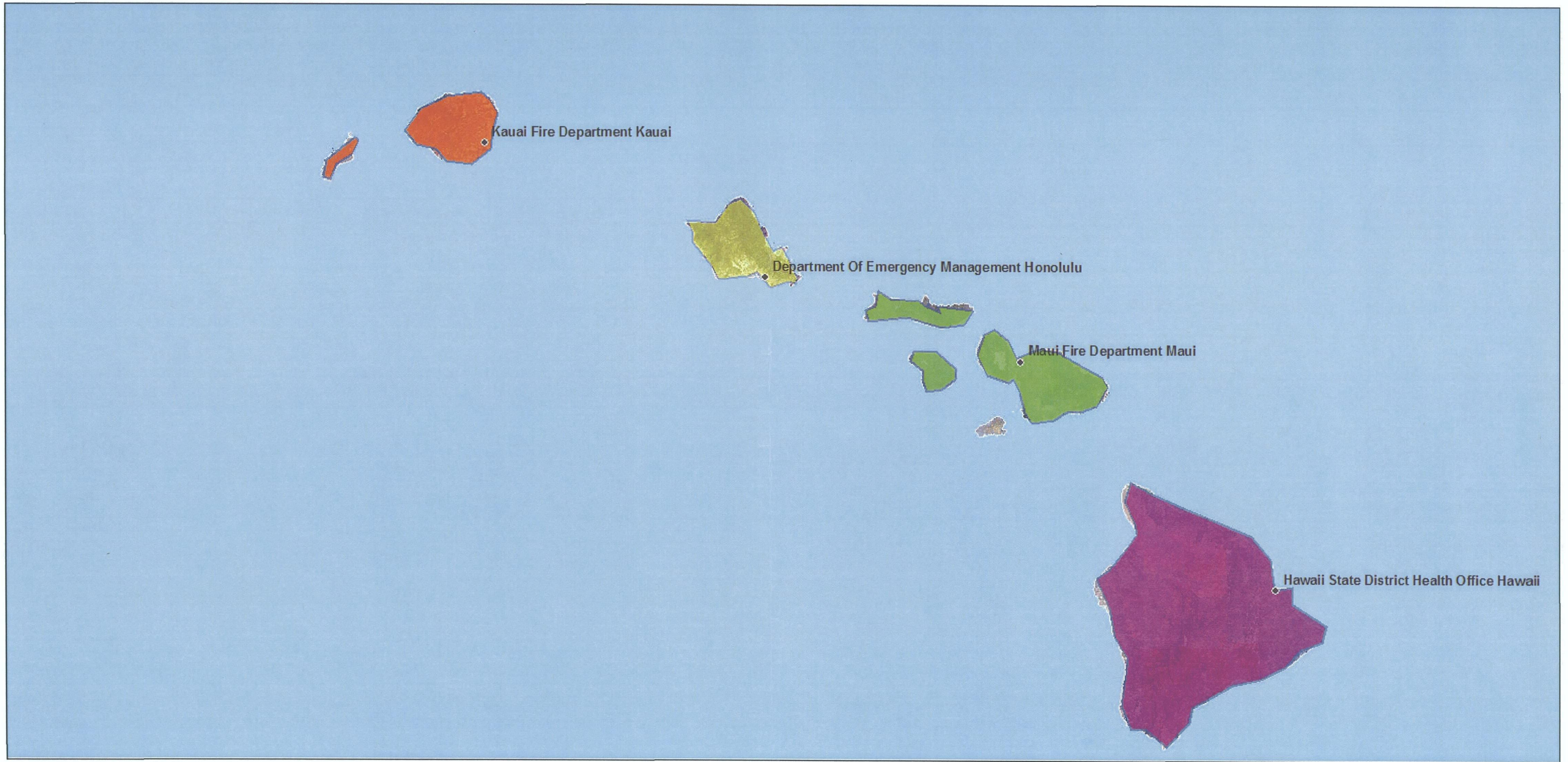
Office of Environmental Quality Control
LEPC - Local Emergency Planning Committee

ACT 242, SLM 1996 ESTABLISHED THE HAWAII HEALTH SYSTEMS CORPORATION, WHICH SHALL BE A PUBLIC BODY CORPORATE AND POLITICAL AND AN INSTRUMENTALITY AND AGENCY OF THE STATE. THE CORPORATION SHALL BE PLACED WITHIN THE DEPARTMENT OF HEALTH FOR THE ADMINISTRATIVE PURPOSES SPECIFIED IN SECTION 20-33(5), HRS ONLY.





* ASSIGNED FOR ADMINISTRATIVE PURPOSES.
** FAMILY GUIDANCE CENTER BRANCH.
*** COMMUNITY MENTAL HEALTH CENTER BRANCHES.

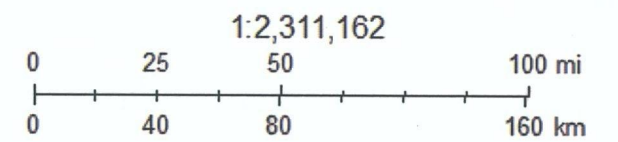
Western State SERC
Conference February
2-5, 2016.
Presentation of
HSERC members.

Hawaii LEPCs



January 28, 2016

-  Hawaii_County2
-  Maui_County
-  Honolulu_County
-  KauaiCounty





AMMONIA SAFETY & TRAINING INSTITUTE



TESTIMONIALS

"I have had nothing but positive feedback from your training class. The jurisdictions that attended were pleased with all of the presentations, particularly the chemical-specific information that you provided concerning the behavior of ammonia."

— **Battalion Chief Mark Wagner**
Hazardous Materials Operations
Baltimore City Fire Department

"Just wanted to say that I enjoyed the 1st Annual Chicago Ammonia Safety Day. Conversation among the attendees emphasized the need to get more involved with their local fire departments and municipal hazardous materials teams. Just getting that point across made the day worthwhile. I intend to recommend this session to the groups I work with."

— **Eric Burghardt**

"I would like to thank you for the great experience that you provided to our staff at the Ammonia Safety Day Training! Indeed, all those who attended agreed that it was extremely valuable for them to get an idea about the Bigger Picture. What you are doing with respect to promoting safety and health in your industry is to be applauded."

— **Clark T. Clements, B.S., CHMM**
UOSH Safety and Health Consultant

SAFETY DAYS PARTICIPANT EVALUATION COMMENTS

"A very well-presented class with good handouts and excellent information. It has definitely improved my knowledge and skills level to be more comfortable with ammonia hazards."

"Great instructors and AV material."

"This was a day very well spent."

"This is a must class for any jurisdiction with ammonia. Hazmat techs need this as well."

"Really great class, glad I attended, much more than I was expecting!"

"I appreciate the experience level, knowledge, examples and added suggestions for what to do at my site and in general."

"Great class! Information was fantastic, very eye opening and relevant to my duties."

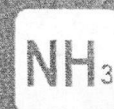
"Will definitely take info back to my district and response area."

"Well organized and informative. The web-based resources are excellent."

"Very good class – will challenge me to look at some different response options."

"Learned a lot more than I expected about ammonia. Had valuable information and videos that pertained to the class."

WORKING TOGETHER



For more information regarding volunteer and Safety Day host opportunities as well as general information, contact ASTI at www.ammonia-safety.com or ASTI office at (831) 761-2935 or email asti@ammonia-safety.com.

SAFETY DAYS

In 1987 the Refrigerating Engineers and Technicians Association (RETA) and ASTI hosted the first Safety Day in Watsonville, California. The response was great, 150 attendees from industry, fire service, and the regulatory community attended. Today the Salinas Valley Safety Day draws over 500 attendees.

ASTI has taken the Safety Day concept nationally. The safety day is strengthening relationships among industry, public safety, and the regulatory community by creating a stronger level of positive awareness and network engagement.

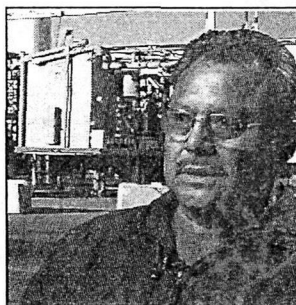
SAFETY DAY DATA

85 Safety Days, 9,500 trained between 2011 and 2014. ASTI is now doing Safety Days internationally in Australia, Canada, and Mexico with plans for additional international training events.

WHY SAFETY DAYS ARE IMPORTANT

In addition to providing necessary and compliance safety to all end users of Ammonia. There are specific examples of life saving lessons taught to our students that impact lives, loved ones and liability.

In December of 2011, Jose Mata, a refrigeration systems operator in Yuma, Arizona, was knocked to the ground by an explosion then quickly overcome by an ammonia cloud. He said he never panicked because he had confidence that he would survive, his muscle memory took over. He moved laterally upwind and immediately began decontamination while his partners. Fire Department responders supported his recovery.



Ammonia explosion survivor, Jose Mata.

Jose and his wife Sandra are thankful that Jose had the muscle memory, developed from years of safety day training, to instinctively know how to escape an ammonia cloud and survive. Sandra adamantly advises Safety Day attendees to "pay attention and learn!"

SAFETY DAYS SPONSOR LEVELS

National and local sponsors and vendors provide most of the funding that allows ASTI to host the Safety Day program throughout the country. The sponsorship offerings are arranged as follows:

SPONSOR BENEFITS & RECOGNITION

SPONSORSHIP LEVELS	Bronze \$5,000	Silver \$10,000	Gold \$15,000	Platinum \$20,000
Logo display brochures, mailings, handouts	✓	✓	✓	✓
Website logos and links	✓	✓	✓	✓
Lunch sponsorship recognition	✓	✓	✓	✓
Streaming logo during conference breaks	✓	✓	✓	✓
Recognition at opening/closing ceremonies	✓	✓	✓	✓
Technical session input and involvement			✓	✓
Advertisement in Safety Day handouts	Logo	Logo+	¼ Page	½ Page
National Safety Day promotional campaign	Logo	¼ Page	½ Page	Full Page
Exhibitor Table/Complementary Registration	1/1	1/3	1/5	2/All

CURRENT INITIATIVES

Provide a National Safety Day training effort that brings local industry, regulators, and emergency responder together to address key emergency response and safety related concerns.

ASTI is working with OSHA to create a clear policy about how and when to wear a Level B PPE ensemble. "We are working from a dated interpretation letter issued by an OSHA regional director that limits the Level B ensemble to 5,000 PPM. Our goal is to increase the level of exposure while wearing Level B ensemble to 10,000 to 15,000 ppm of vapor."



ONE PLAN EMERGENCY RESPONSE READINESS



ASTI is automating the One Plan materials so that the emergency planners and end users have an easy to use operational guidance materials. The One Plan system is designed to be used for all-hazards response. The Plant command team must be prepared to integrate with public safety responders to address fire, chemical, medical, and the specific emergency challenges that the Plant emergency plan designates. The Command Team must have the ability to engage swiftly and avoid the dangers of chaos, especially in the first 30 minutes. The team will be trained to work simultaneously and in sync stop the emergency event when it is small.

ASTI BOARD

President Gary Smith – Retired Fire Chief (33 years of service) with 25 years of work with ammonia refrigeration emergency management.

Vice Chair of the Board

Don Tragethon – Western PreCooling in Salinas, California and an active leader with the Refrigerating Engineers and Technician Association.

Treasurer Ron Hill – CEO and President of Hill Brothers Chemical Company. Ron's Uncle, Doug Hill, co-founded ASTI in 1987.

Secretary of the Board Tim White - Tim is a refrigeration engineer and facility manager with corporate experience in project management.

Board Member Sonny Basaldua – Chief of Operations (retired) at the Americold cold storage facility in Watsonville; 30 years of refrigeration service.

Board Member Frank Wewers – Founded and operated Manning Instruments Inc. and has been widely respected in the ammonia industry for the last 37 years.

Board Member Bob Cole – Deputy Fire Chief, Chevron Chemical (Pascagoula, Mississippi) for the last 30 years (recently retired).

Board Member Mark Reasons – Manages Ocean Mist Farms in Castroville and is committed to professional management and safety readiness.

Board Member Grant Golding – President/CEO of Alliance Refrigeration in Los Angeles. Grant has over 35 years of engineering and business experience.

Board Member Troy Baker – Business Development Manager for Honeywell Manning dealing with Chemical and Respiratory Safety for the past 25 years.

Board Member Martin Wehner – President of Airgas Specialty Services. Martin has more than twenty years of experience in the ammonia industry.

WHAT DOES ASTI DO?

The Ammonia Safety and Training Institute (ASTI) addresses emergency response challenges associated with an ammonia event. We work with regulators, public safety, and plant responders to improve the level of response during the four phases of an emergency event: *discovery, initial response, sustained response, and termination* of the emergency event.



ASTI develops response protocols and tests out emergency response equipment while performing highly regarded training for emergency responders.

EXAMPLES:

- Testing personal protective equipment alternatives that provide adequate protection while also being less impacting on the responders.
- Recreates Past and Potential Ammonia Hazardous situations to test theories and validate the assumptions from those events.
- Evaluating ammonia cloud movement in open areas as well as within structures during various weather and terrain conditions.
- Training public safety, regulators, and industry using live ammonia to demonstrate how to properly contain aerosol releases and how to mitigate the hazards, risks, and threats of ammonia.

SERVICES: Meet your OSHA requirement for training.

Technical Training

ASTI annually trains about 3,000 to 5,000 emergency response personnel (corporate and public safety). ASTI-created information is now being used by many plant emergency planners, fire service organizations, and training contractors throughout the U.S. and around the world.

One Plan

The emergency plan framework used by most public and private agencies reflect the *One Plan logic* created by the National Response Team in 1991 (as guided by the EPA). ASTI is working with EPA and OSHA to "operationalize" the *One Plan*. ASTI has built checklists, pocket guides, clipboards, and quick reference materials for ammonia users (as recommended by the National Response Team).



HISTORY AND ORGANIZATION OF ASTI

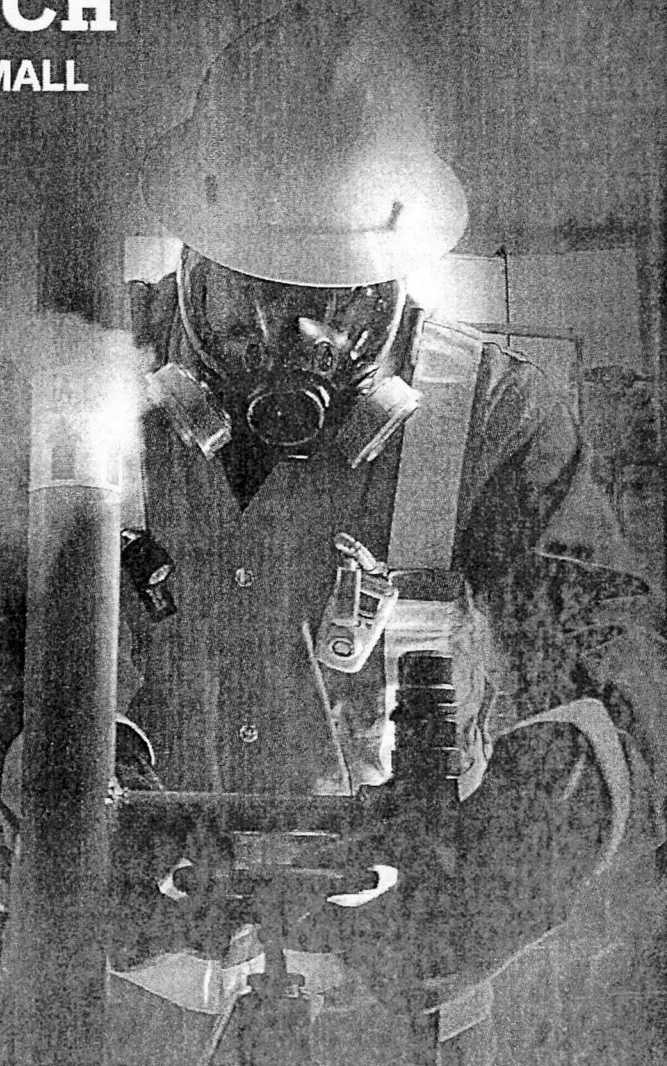
Fire Chief Gary Smith from Watsonville, California, and Doug Hill, CEO for the Hill Brothers Chemical Company, co-founded ASTI in 1984. Both Doug and Gary were concerned about the many gaps and weaknesses in the emergency response system. In 1987 they agreed to join forces and created a 501 (c) 3 non-profit organization that they named Ammonia Safety and Training Institute (ASTI). The passion and drive of the founders, board of directors, and training staff have carried ASTI successfully for 25 years. Unfortunately, Doug passed away in 2007. Gary continues to lead ASTI as the President.



AMMONIA SAFETY & TRAINING INSTITUTE

ASTI'S SAFETY & EMERGENCY RESPONSE APPROACH

PREVENT THEM ALL OR STOP THEM SMALL

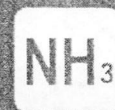


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For more information regarding volunteer and Safety Day host opportunities as well as general information, contact ASTI at www.ammonia-safety.com or ASTI office at (831) 761-2935 or email asti@ammonia-safety.com.